

Fig. 1 (prior art)

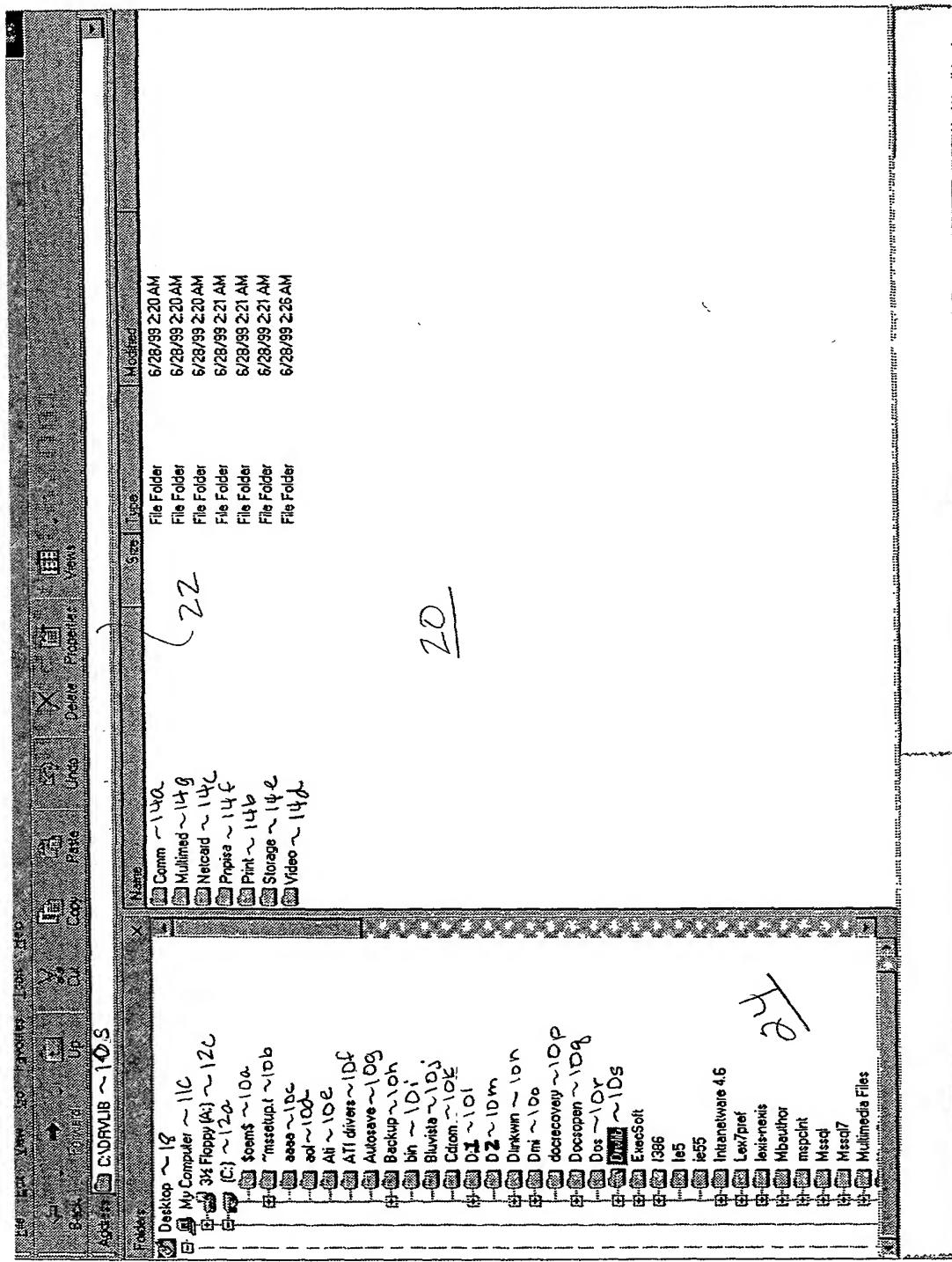


Fig.2 (prior art)

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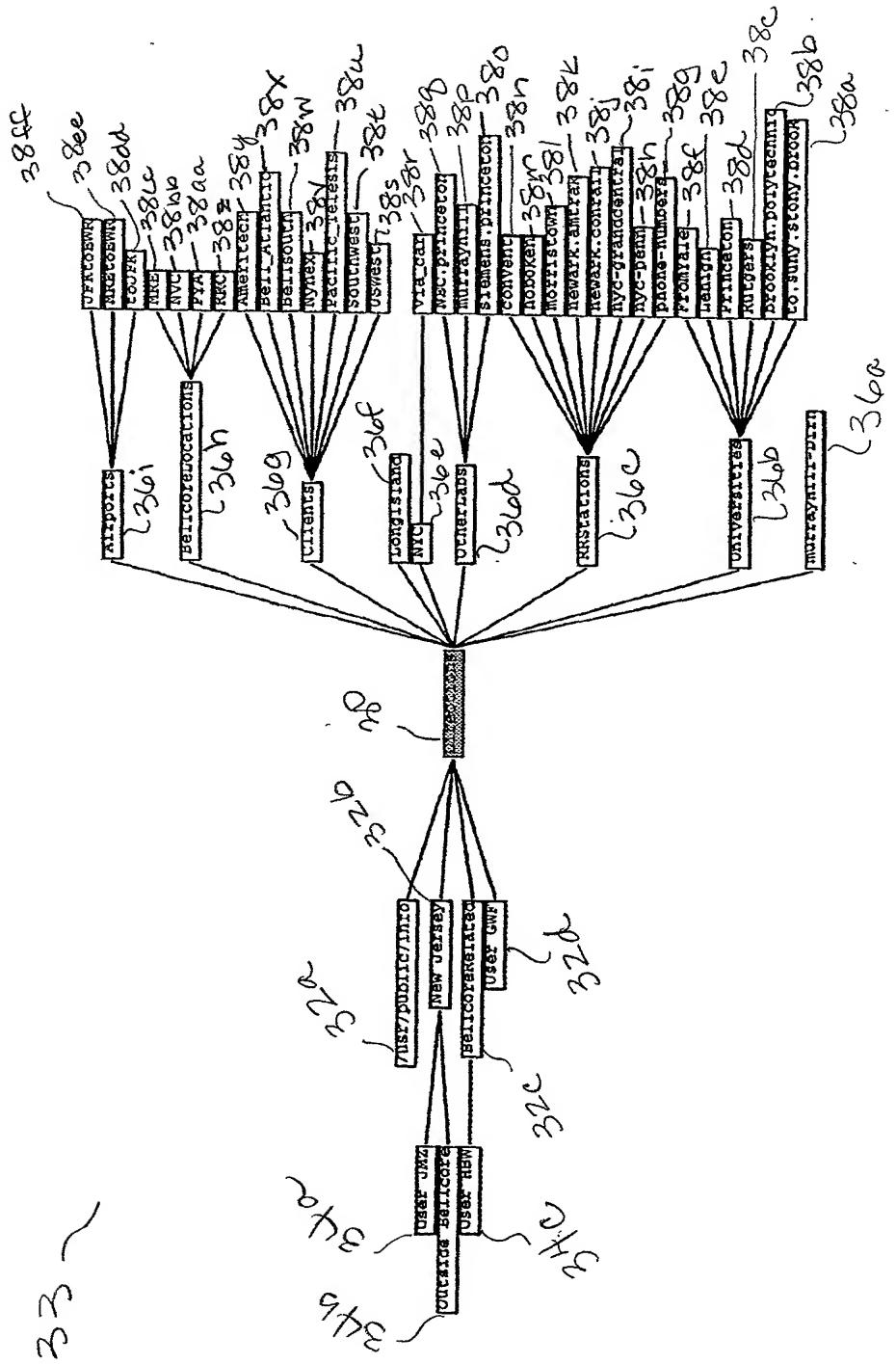


Fig. 3 (prior art)

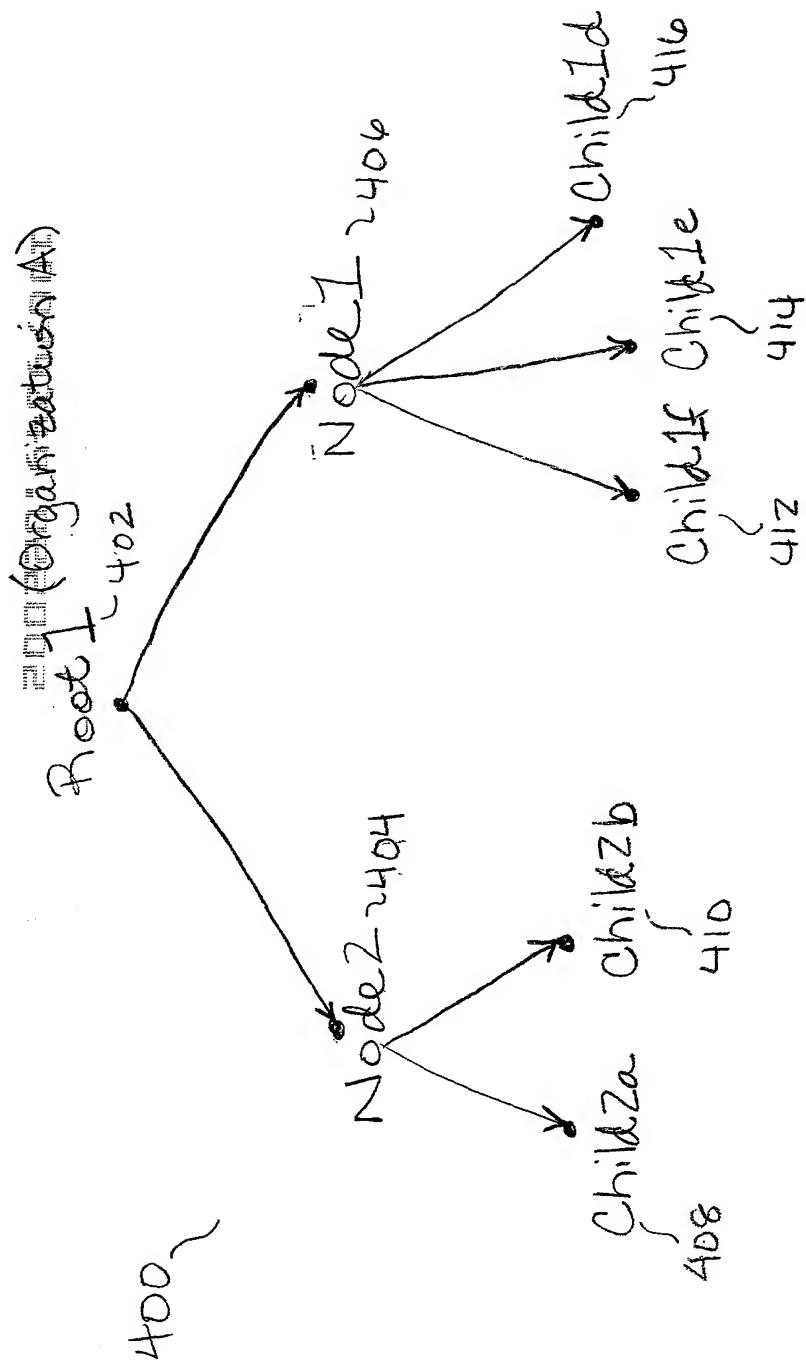


Fig. 4

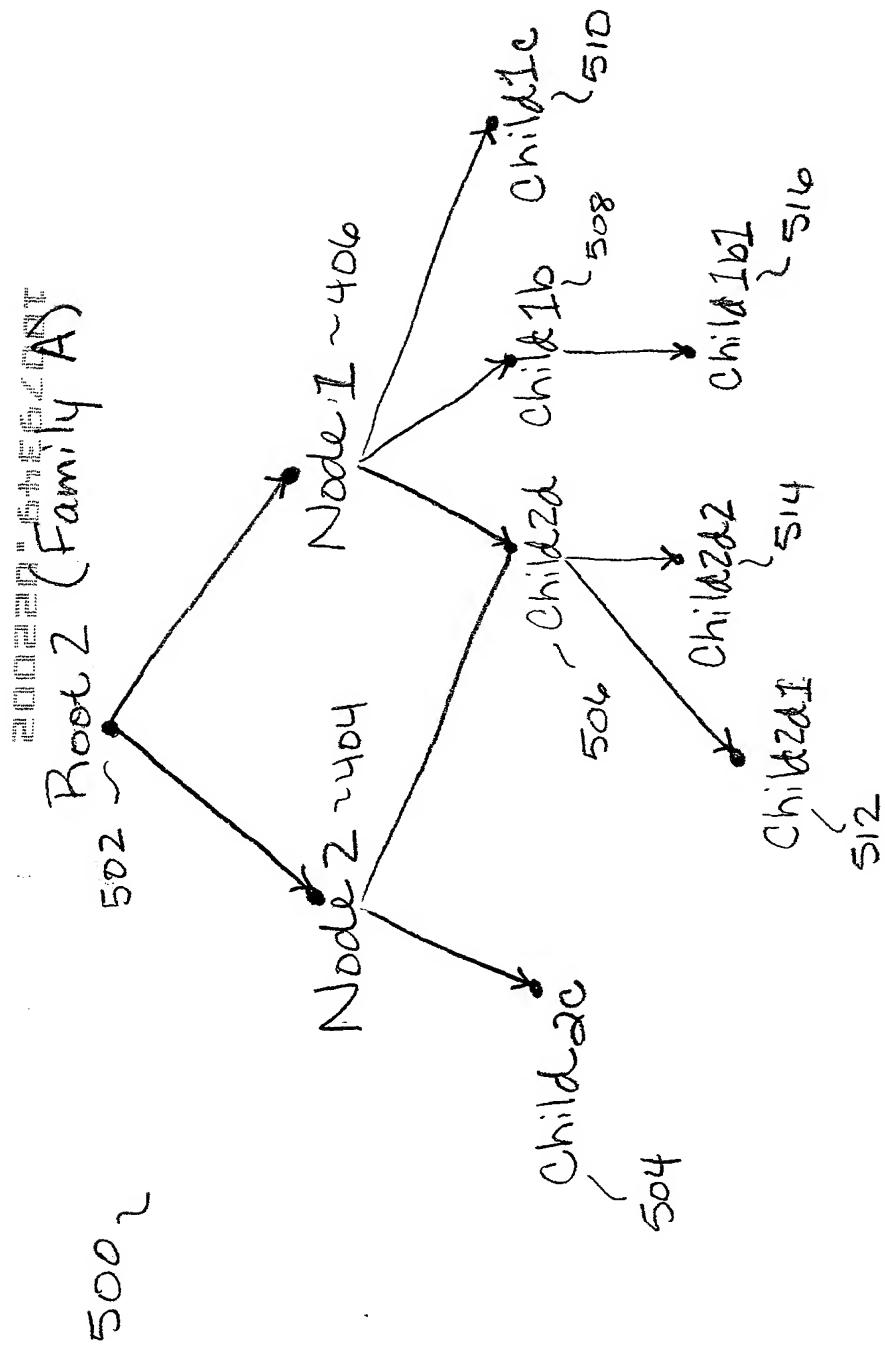


Fig. 5

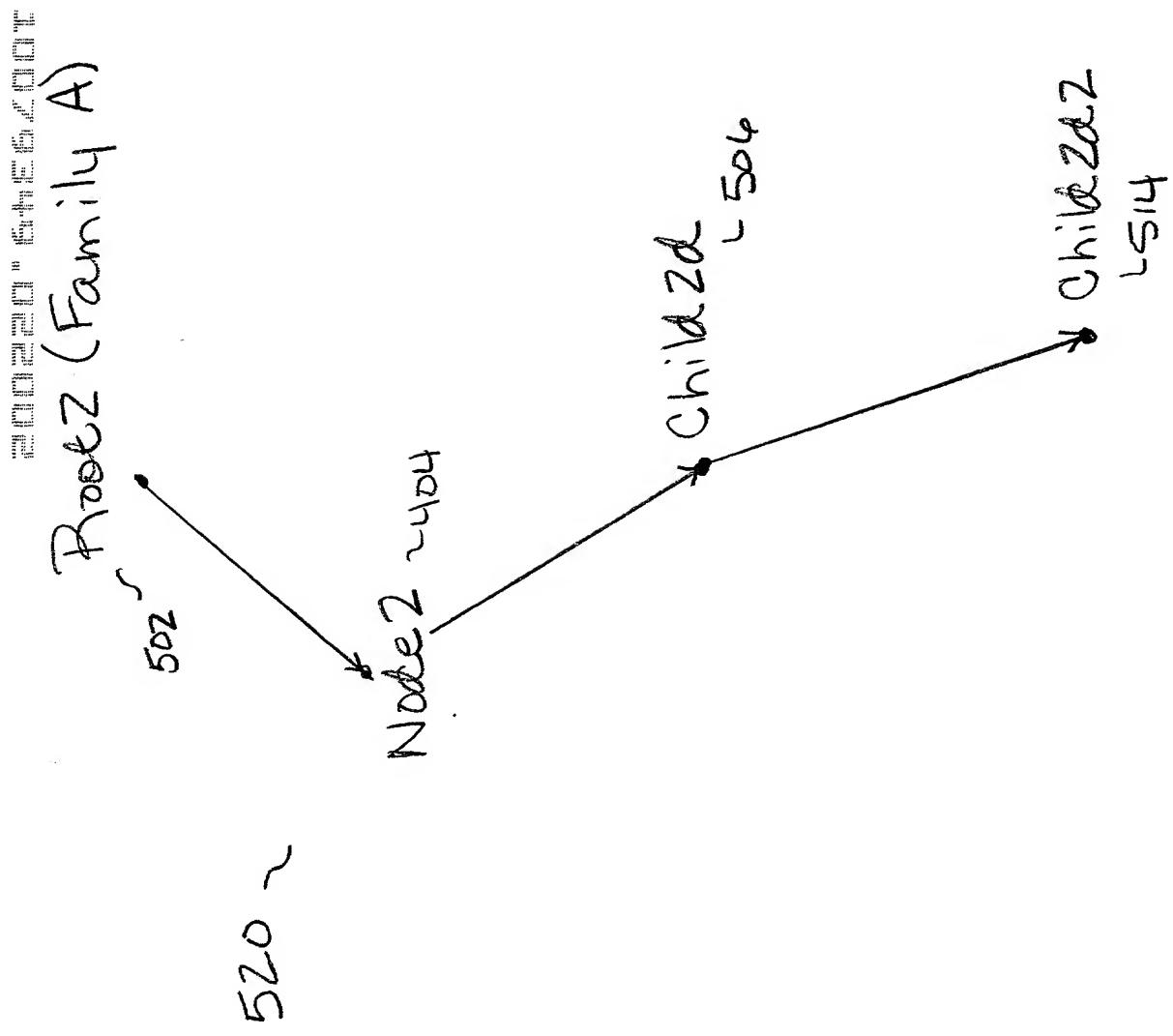


Fig. 5A

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Root2 (Family A)

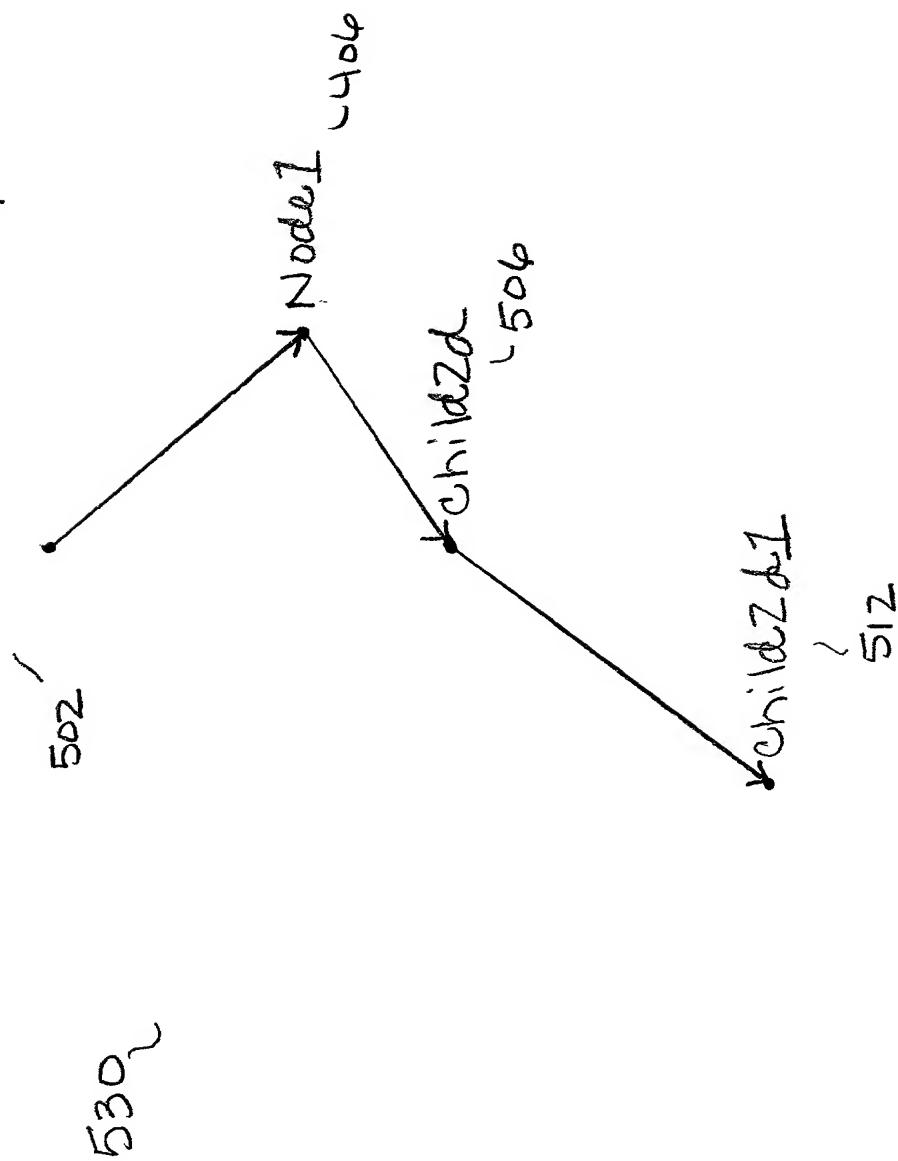


Fig. 5B

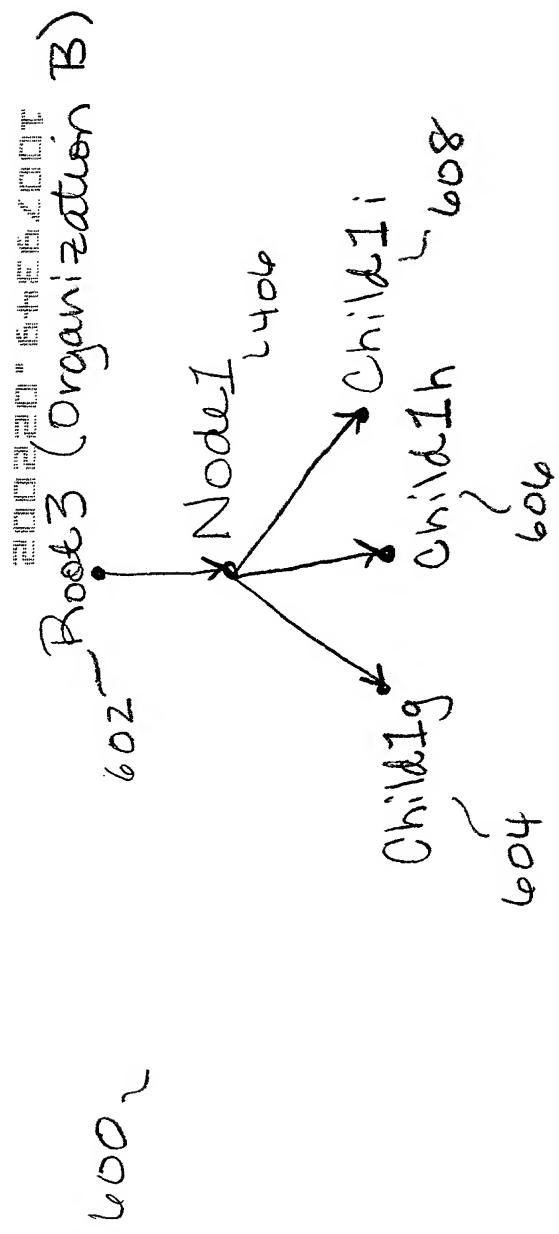
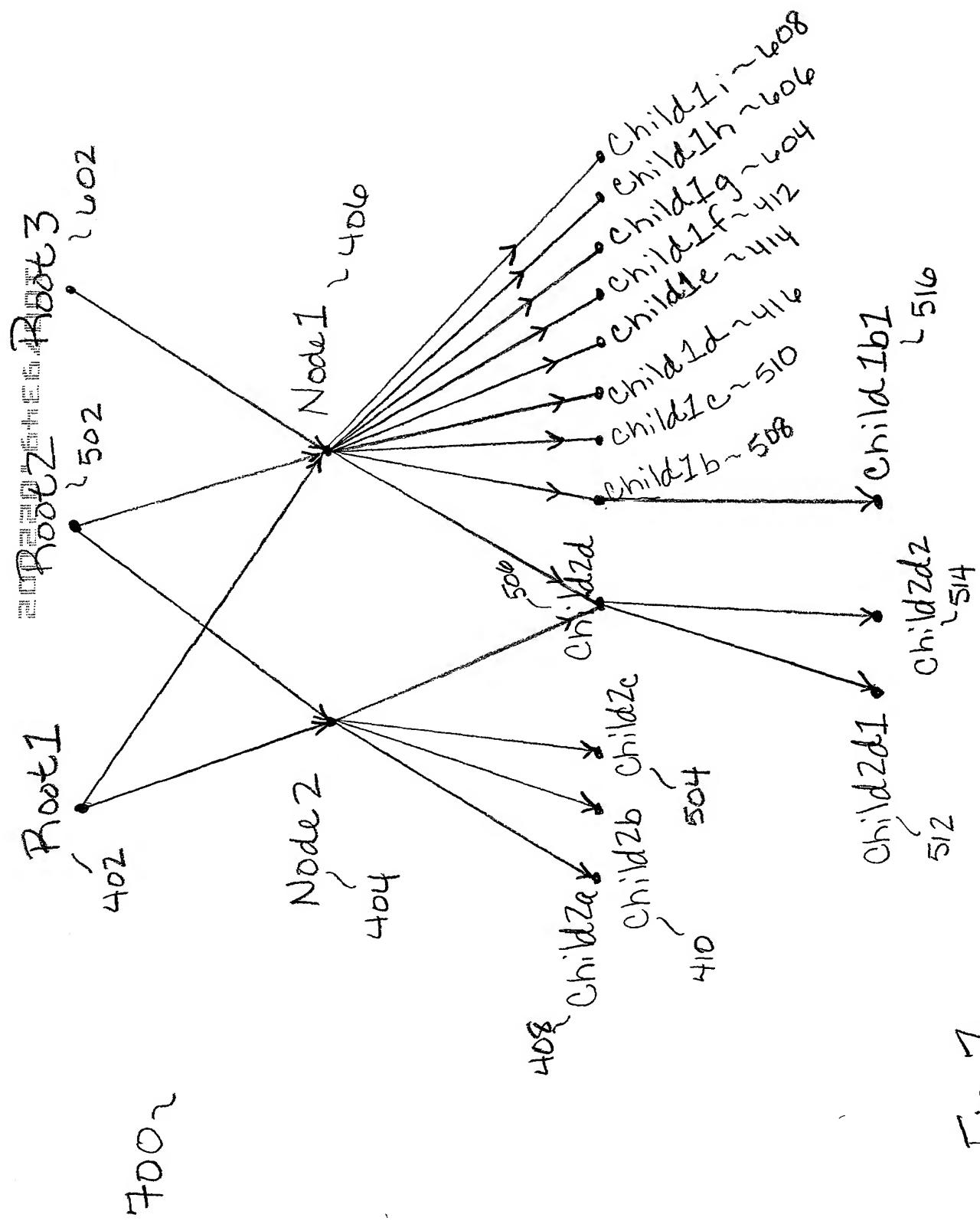


Fig. 4



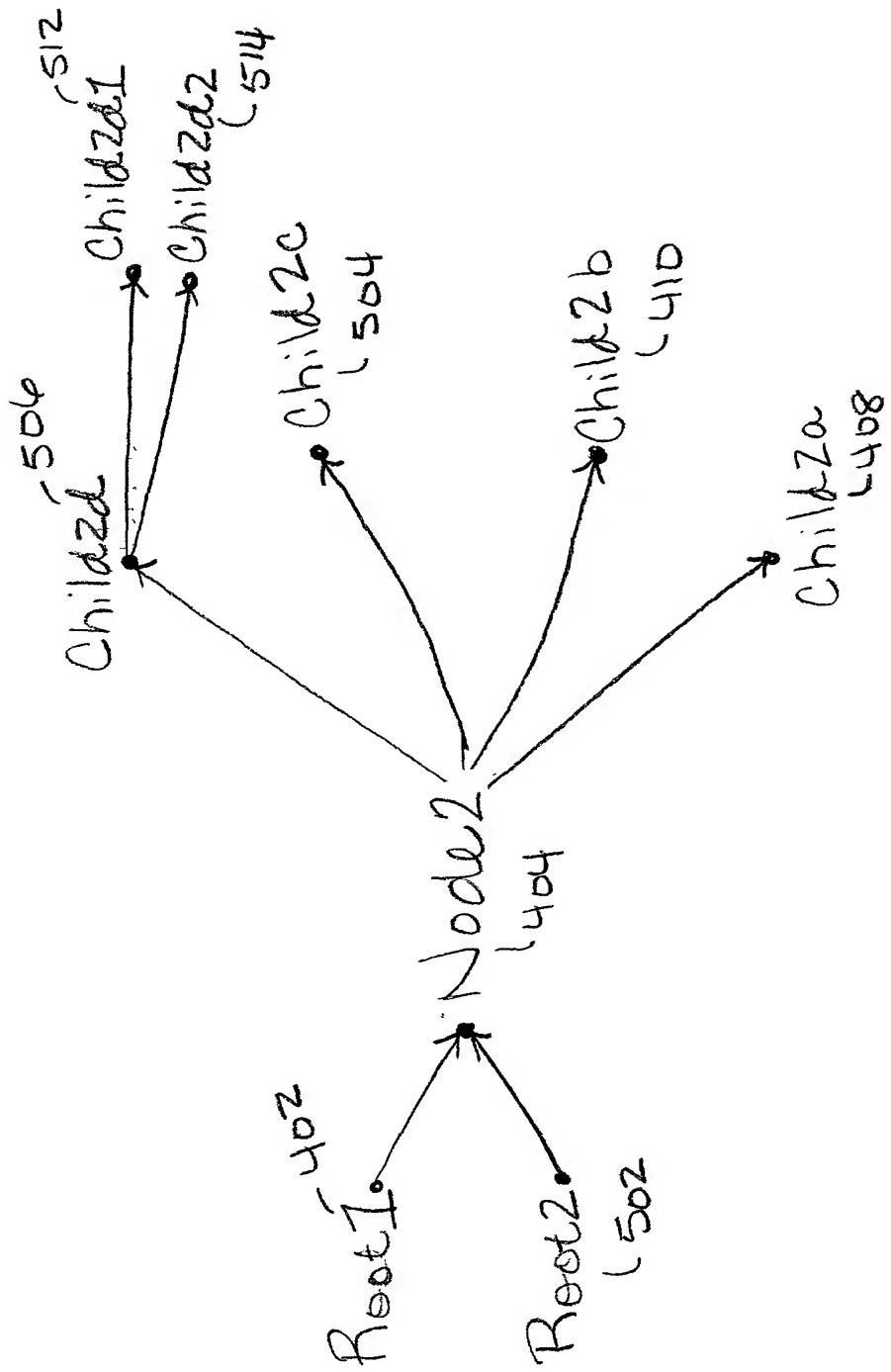


Fig. 8 (prior art)

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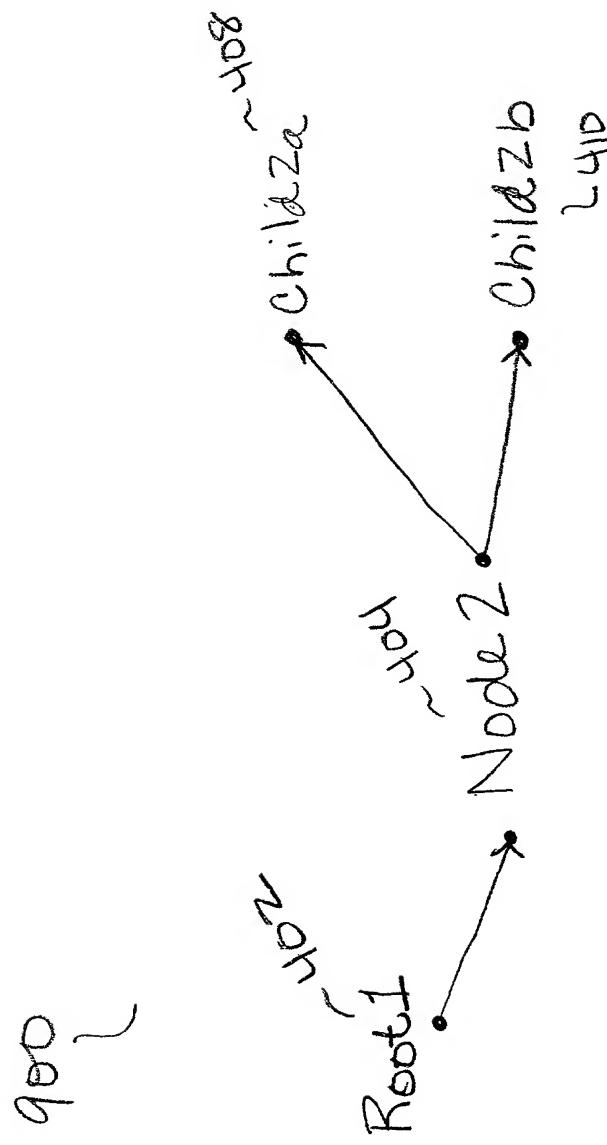


Fig. 9

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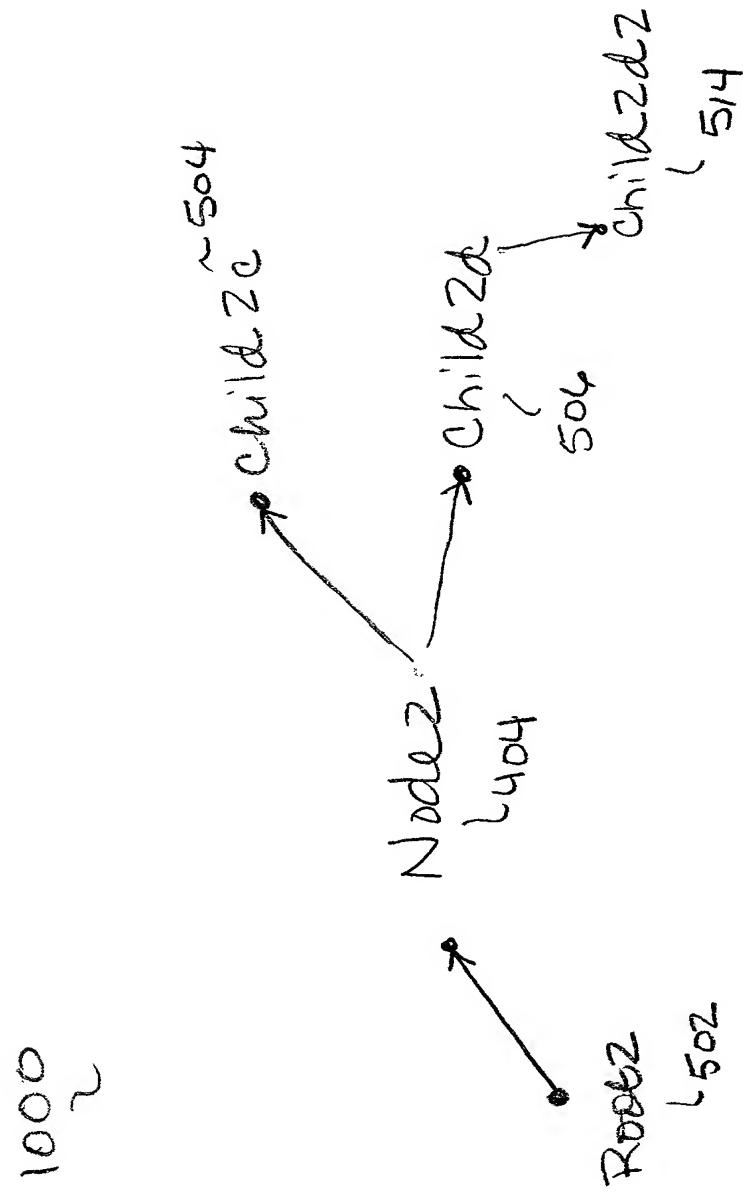


Fig. 10

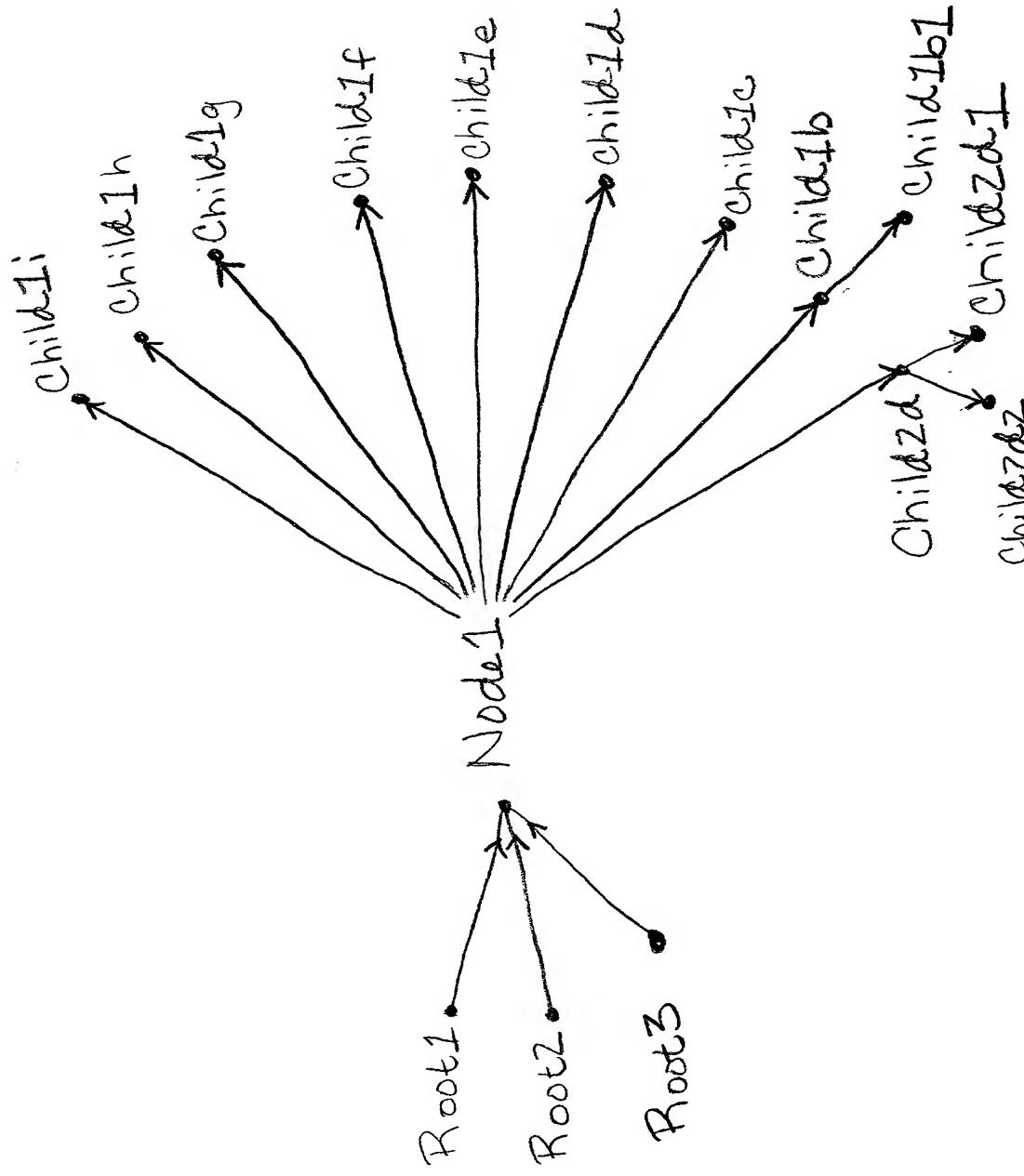


Fig. 11. (prior art)

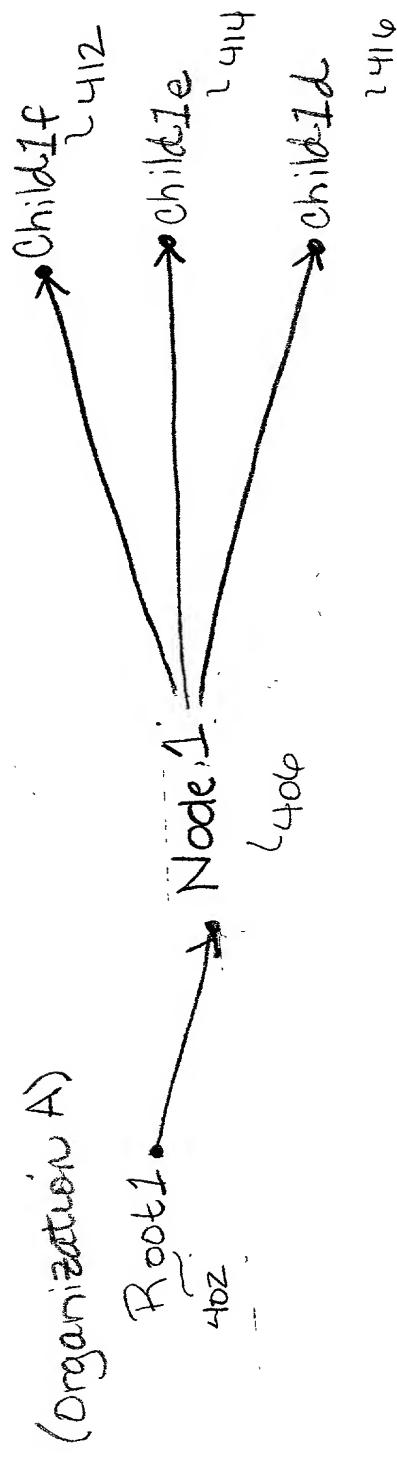


Fig. 12

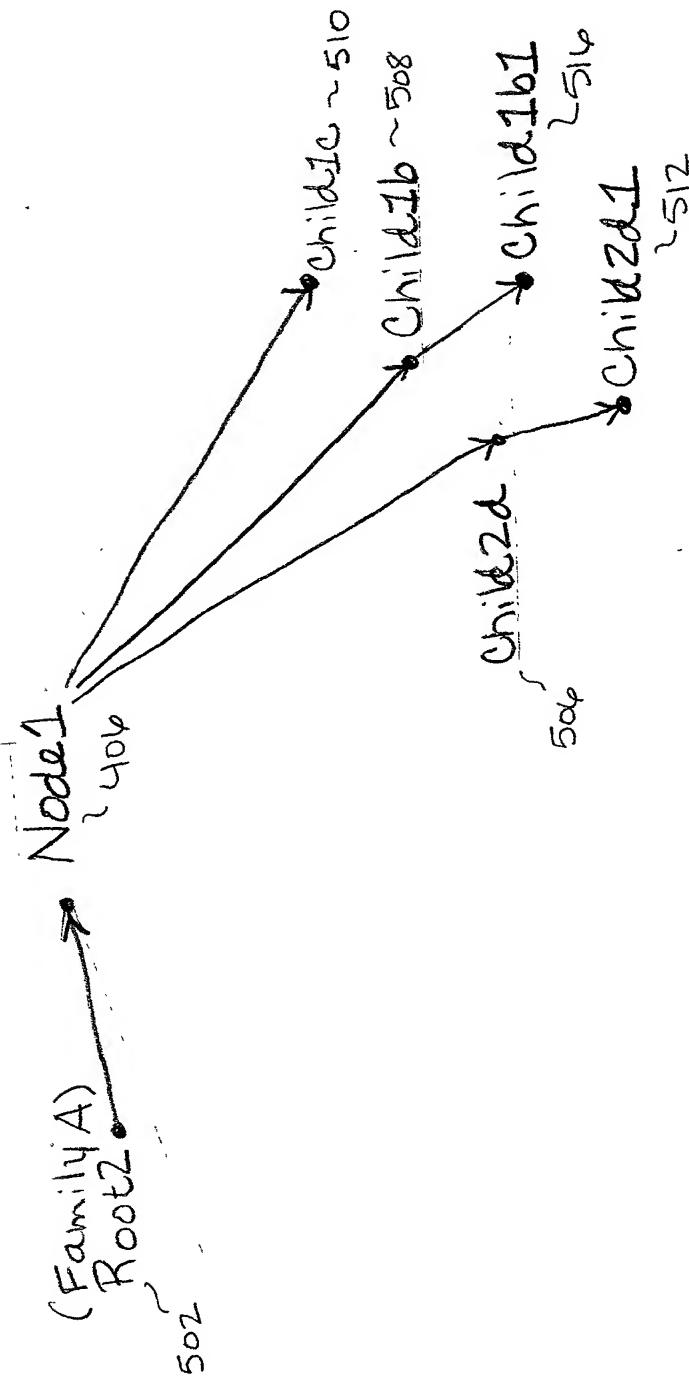


Fig. 13

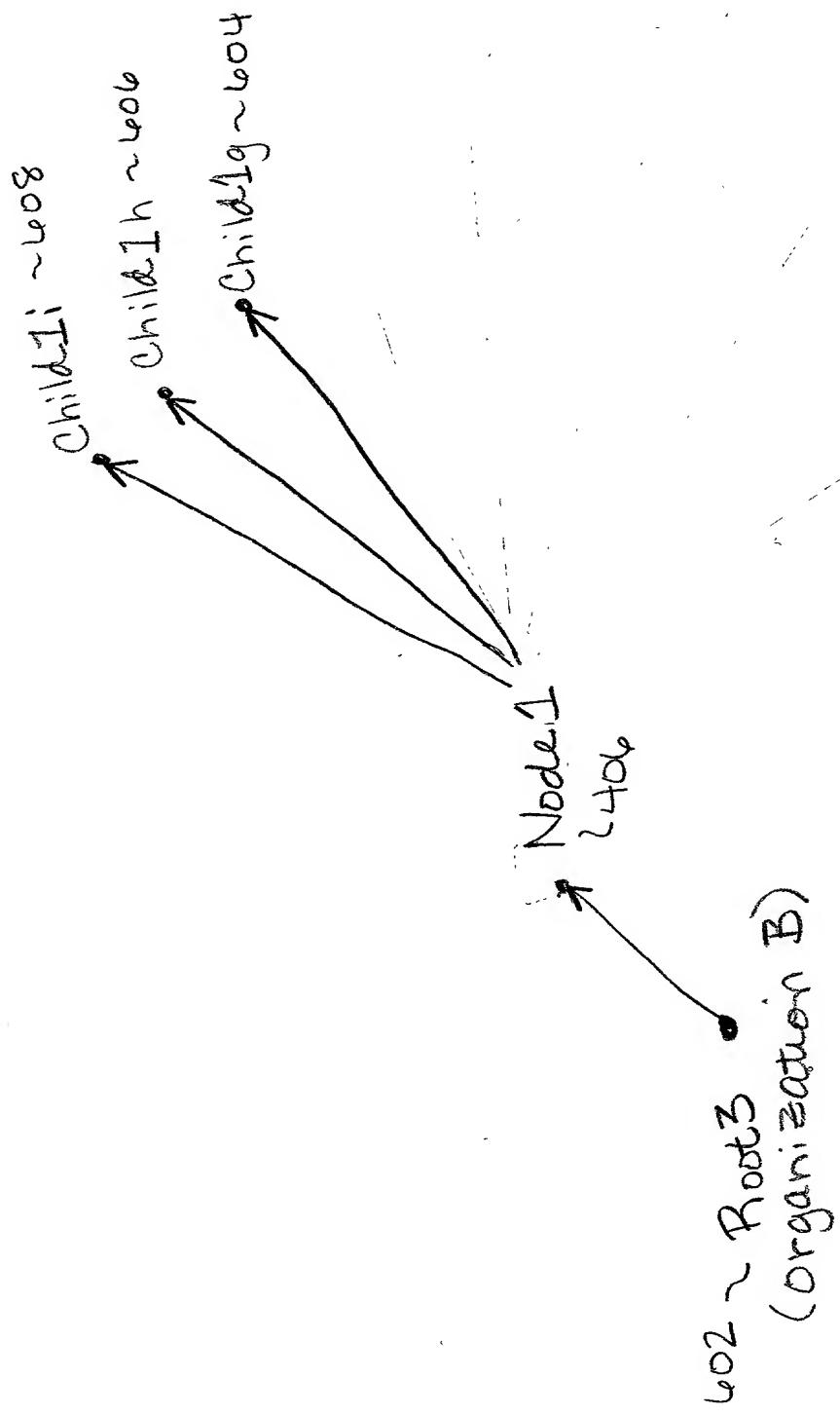


Fig. 14

Grouping "Organization Structure"

Details Content Browsing

In Focus: (Top of Grouping)

Children of 'Top of Grouping'

Name	Hierarchy	Start Date	End Date
Root1 ~102	Organization A ~400	01/01/2000	Infinite
Root2 ~502	Family A ~500	01/01/1999	12/31/2003
Root3 ~602	Organization B ~600	08/01/1999	Infinite

L1502

Showing line 1 to 3 of 3

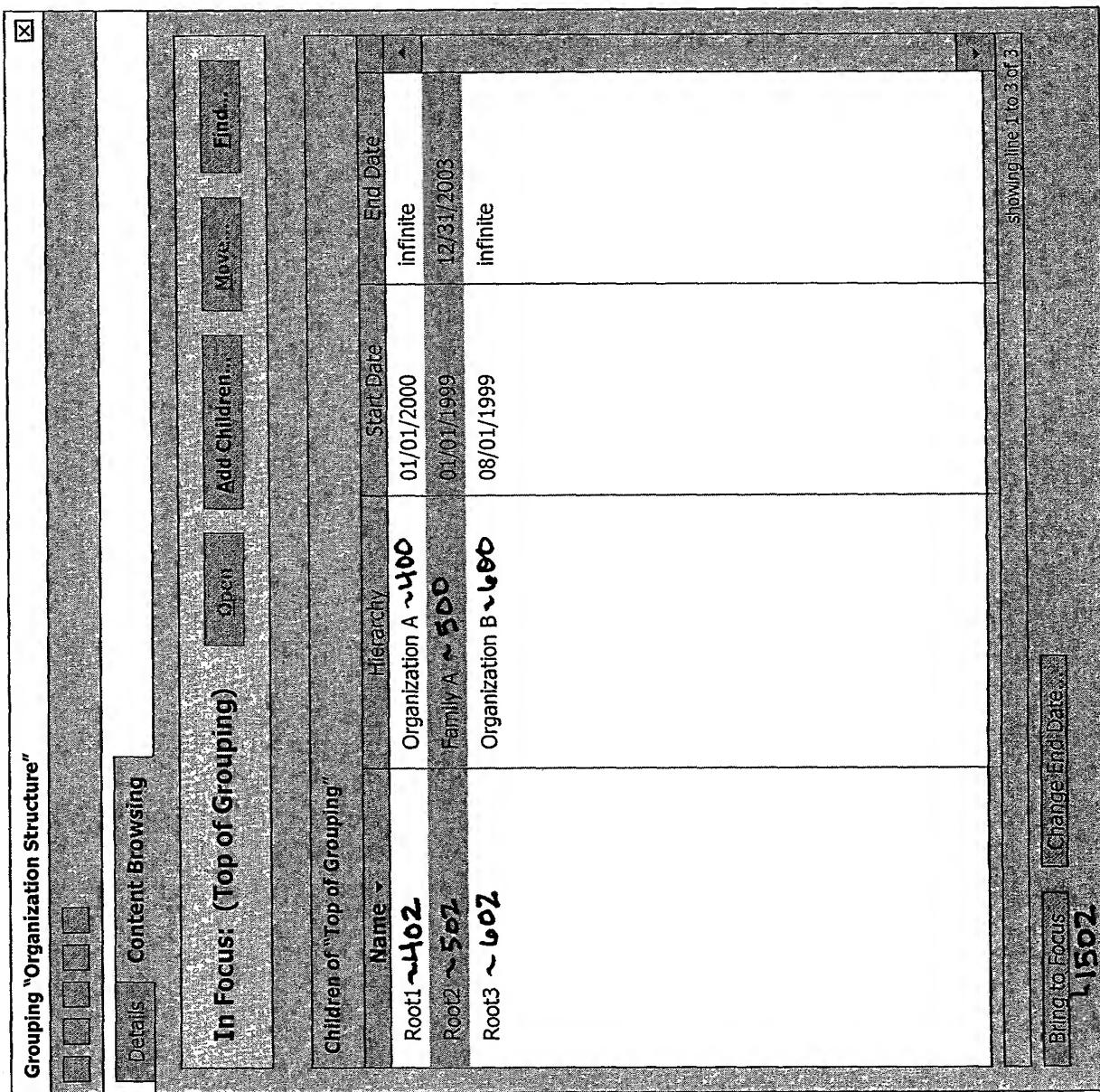


Fig. 15

Next view of hierarchy
navigation control set, if
double-clicked on Root2
or single-clicked
and select Bring to Focus
button for Root2.

Grouping "Organization Structure"			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Details	Content: Browsing	1602	<input checked="" type="checkbox"/>
In Focus: Root2 ~ 502			
Open Add Children... More... Find...			
Parents of "Root2" (Top of Grouping)			
Name	Hierarchy	Start Date	End Date
Node1 ~ 404			
1604			
Showing line 1 to 1 of 1			
Bring to Focus Change End Date...			
Children of "Root2" > "Top of Grouping"			
Name	Hierarchy	Start Date	End Date
Node1 ~ 404	Family A ~ 500	01/01/2000	infinite
Focus2	Family A ~ 500	01/01/1999	12/31/2003
1604			
Showing line 1 to 2 of 2			
Bring to Focus Change End Date...			
1502			

Fig. 16

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Fig. 17

Fig. 18

Grouping "Organization Structure"

Content Browsing 1402

In Focus: Child2d ~ 504

Name ~ 404	Hierarchy	Start Date	End Date
Node 1 ~ 404	Family A ~ 500	01/01/2000	infinite
Node 2 ~ 404	Family ~ 500	01/01/1999	12/31/2003

1404 showing line 1 to 2 of 12

Bring to Focus 1802

Children of "Root 2" >> "Node1" >> Child2d

Name ~ 512	Hierarchy	Start Date	End Date
Child2d ~ 512	Family A ~ 500	01/08/2002	infinite

1404 showing line 1 to 2 of 12

Bring to Focus

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Grouping "Organization Structure"																					
<input type="button" value="Details"/> <input type="button" value="Content Browsing"/> <input type="button" value="Find"/> <input type="button" value="Find..."/>	<input type="button" value="In Focus: (Top of Grouping)"/> <input type="button" value="Open"/> <input type="button" value="Add Children..."/> <input type="button" value="Never"/> <input type="button" value="Find..."/>																				
<table border="1"> <thead> <tr> <th colspan="4">Children of "Top of Grouping"</th> </tr> <tr> <th>Name</th> <th>Hierarchy</th> <th>Start Date</th> <th>End Date</th> </tr> </thead> <tbody> <tr> <td>Root1</td> <td>Organization A</td> <td>01/01/2000</td> <td>Infinite</td> </tr> <tr> <td>Root2</td> <td>Fault A</td> <td>01/01/1999</td> <td>12/31/2003</td> </tr> <tr> <td>Root3</td> <td>Organization B</td> <td>08/01/1999</td> <td>Infinite</td> </tr> </tbody> </table>		Children of "Top of Grouping"				Name	Hierarchy	Start Date	End Date	Root1	Organization A	01/01/2000	Infinite	Root2	Fault A	01/01/1999	12/31/2003	Root3	Organization B	08/01/1999	Infinite
Children of "Top of Grouping"																					
Name	Hierarchy	Start Date	End Date																		
Root1	Organization A	01/01/2000	Infinite																		
Root2	Fault A	01/01/1999	12/31/2003																		
Root3	Organization B	08/01/1999	Infinite																		
<input type="button" value="Bring to Focus"/> <input type="button" value="Change Entity Type"/> <input type="button" value="1502"/> <input type="button" value="Showing line 1 to 3 of 3"/>																					

Fig. 19

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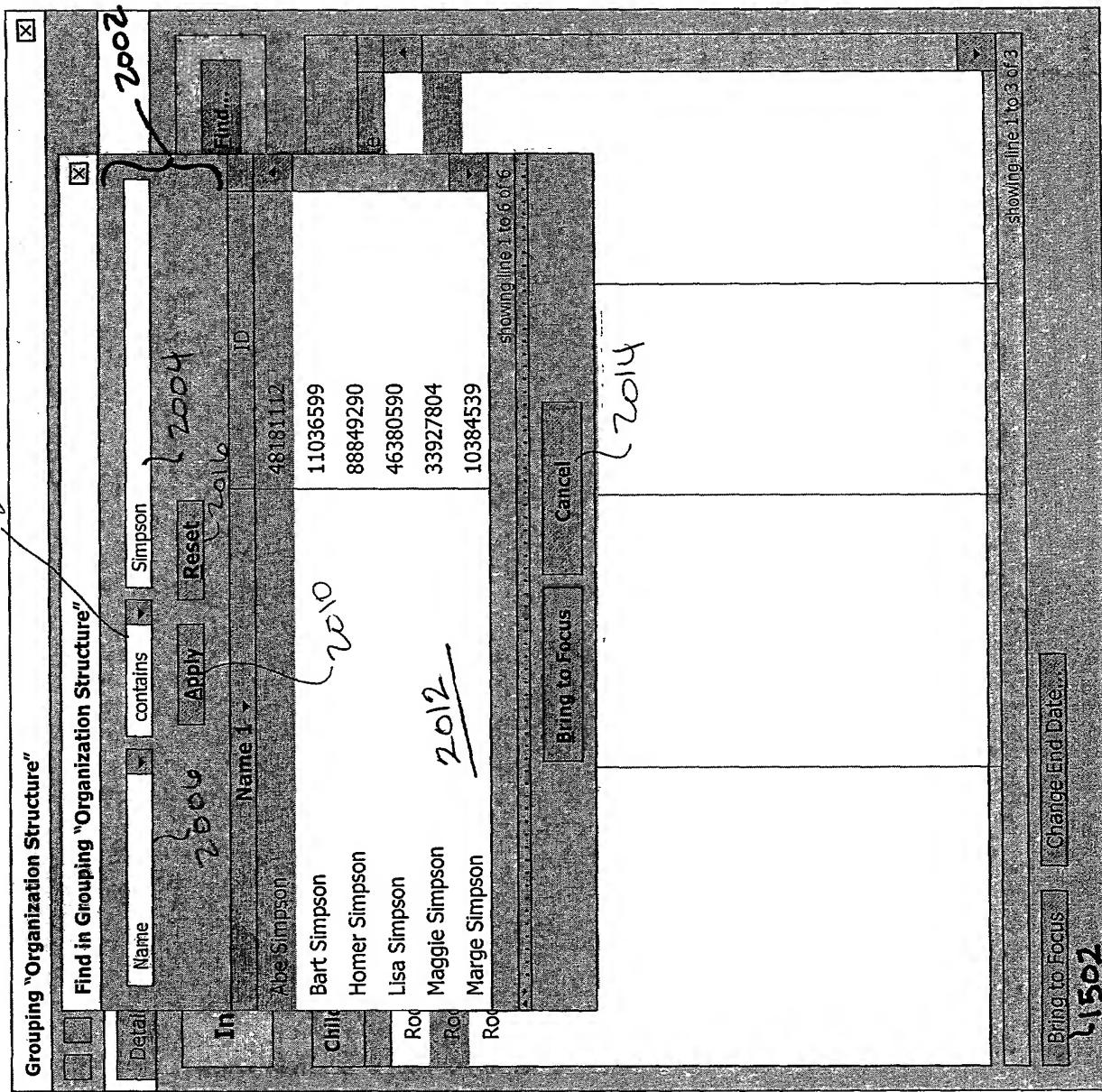


Fig. 20

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~~Next view of hierarchy navigation control set, if double-clicked on Focus1 or single-clicked and select Bring to Focus button for Focus1.~~

Fig. 21.

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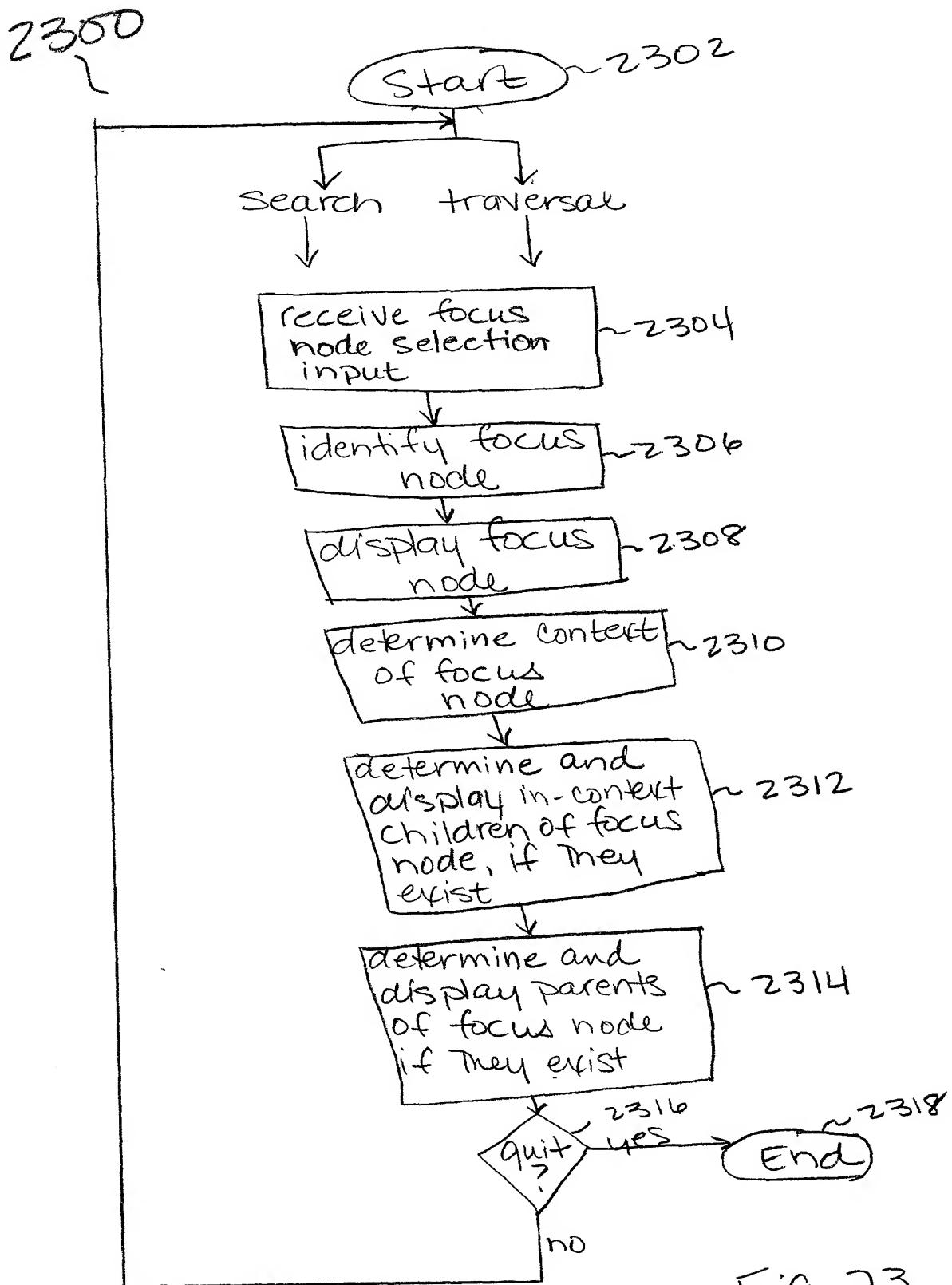


Fig. 23

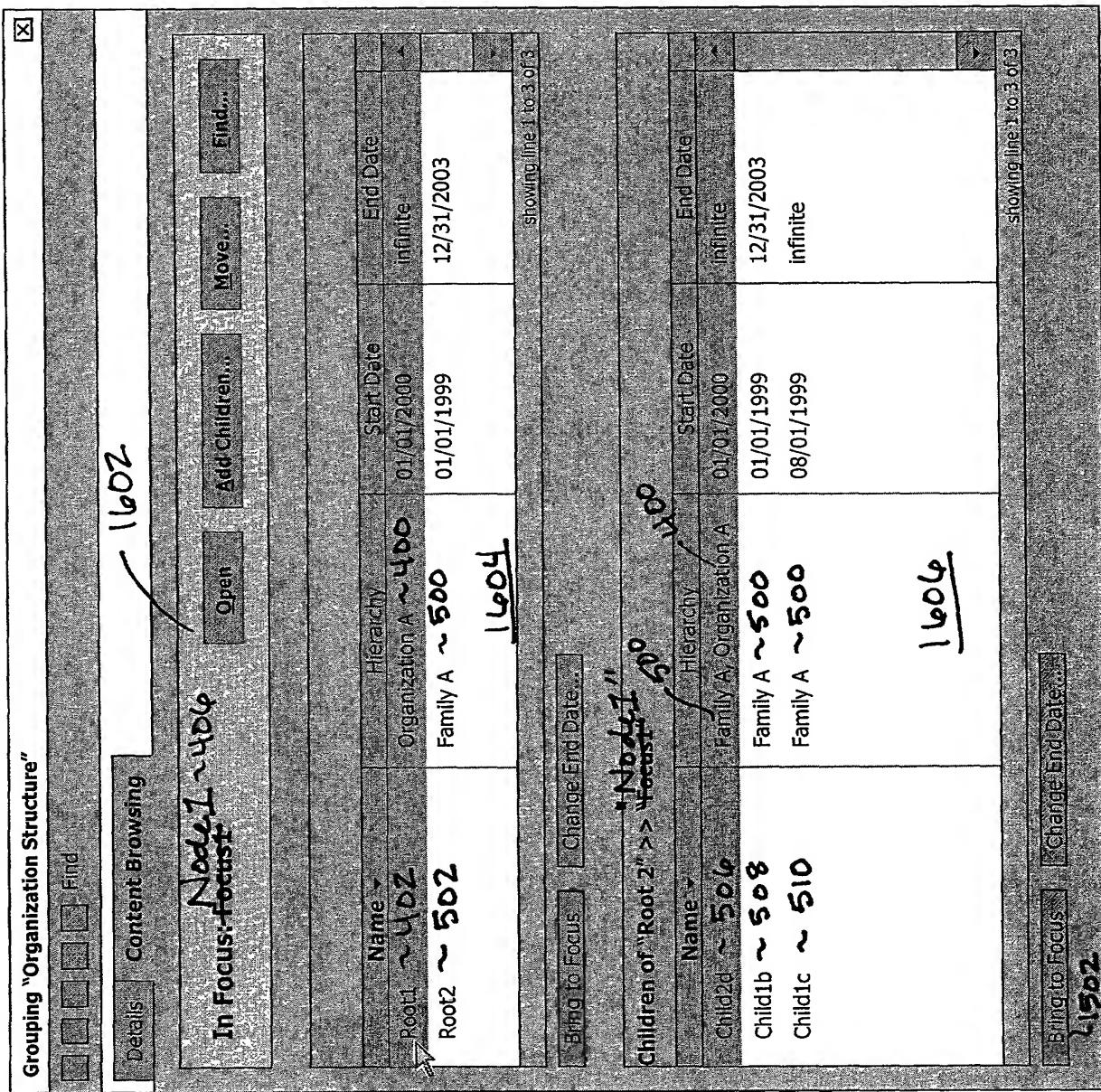


Fig. 24

Content Browsing 1402

In Focus: Root1 ~ 402

Details

Grouping "Organization Structure"

Open Add Children... Find...

Name Hierarchy Start Date End Date

Top of Grouping 1404

Bring to Focus Change End Date...

Showing line 1 to 3 of 3

Children of "Root 1"

Name	Hierarchy	Start Date	End Date
Root1 ~ 402	Organization A ~ 400	01/08/2002	Infinite
Focus2 ~ Node2 ~ 404	Organization A ~ 400	01/10/2001	Infinite

1404

1402

Showing line 1 to 3 of 3

Fig. 25

Fig. 26

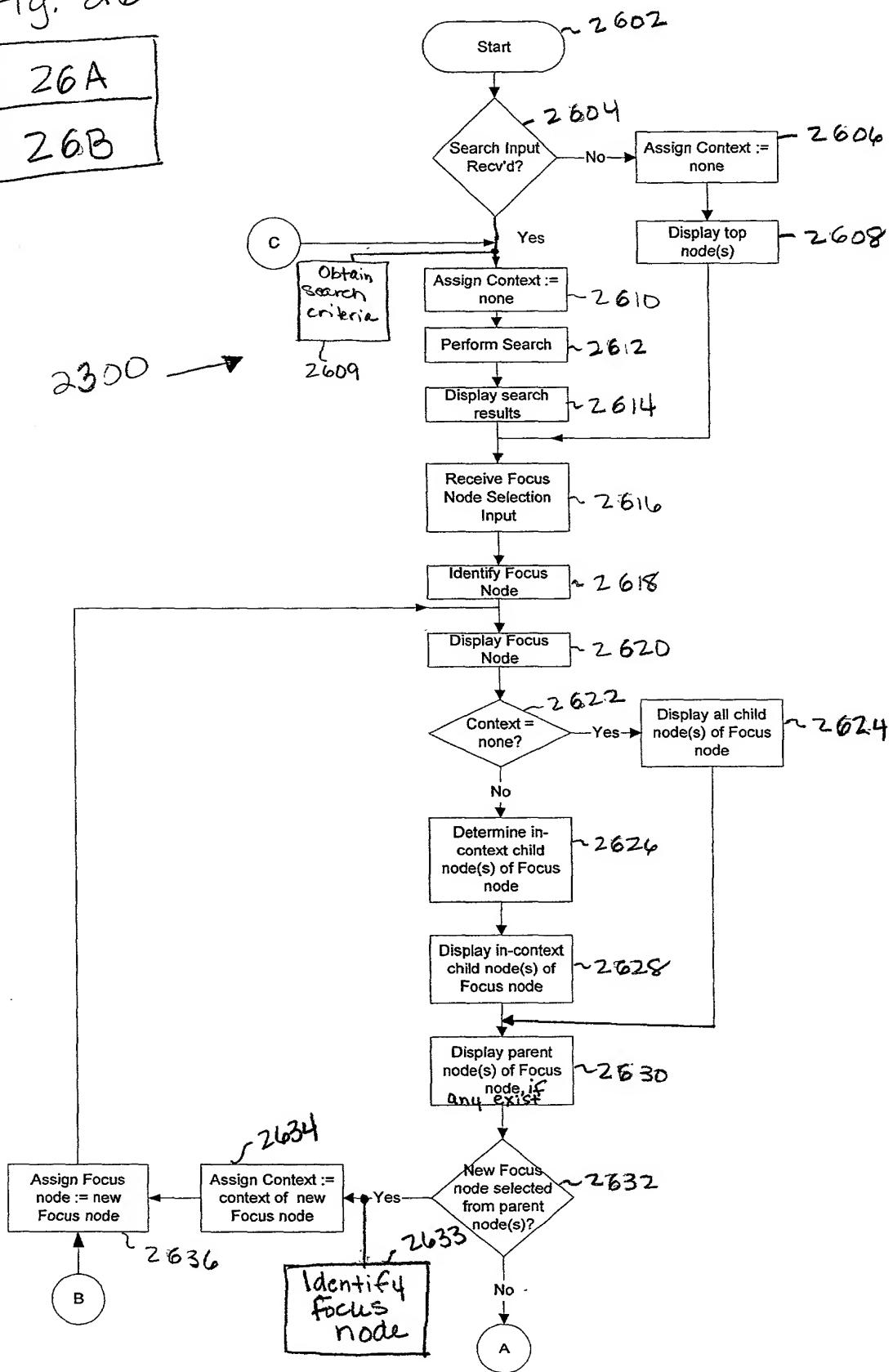
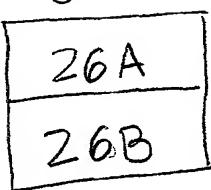


Fig. 26A

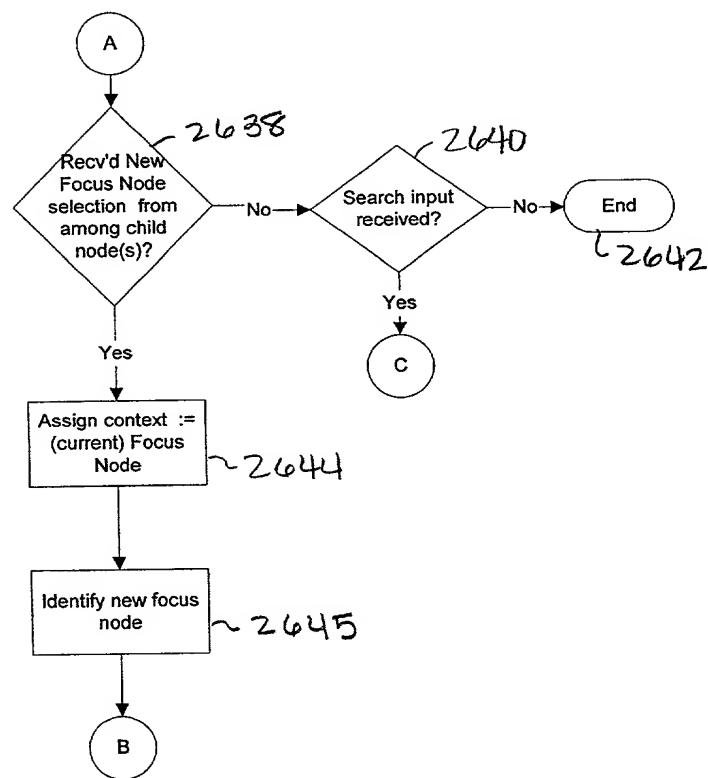


Fig. 26B

Search for Hierarchy

Attorney Docket No.:
First Inventor:
Title:

M-12213 US
Sherrill J. Packebush
System and Method For An Interface To Provide Visualization And
Navigation Of A Directed Graph

Search for Hierarchy >>		Search Results for organization name contains Sample		Displaying results 1-10 of 11 previous 10 next 10	
Hierarchy Type	ID	Name	Position	Party	Type Description
organization	001	Sample Hierarchy 1	CEO	Jane Michael Bean	org
	002	Sample Organizational Hierarchy 2	CEO	Ned Flanders	org
	003	Sample Organizational Hierarchy 3	CEO	Charles Norris	org
	004	Sample Organizational Hierarchy 4	CEO	Harold Jones	org
	005	Sample Organizational Hierarchy 5	CEO	Buck Banzai	org
	006	Sample Organizational Hierarchy 6	CEO	Kris DeCa	org
	007	Sample Organizational Hierarchy 7	CEO	Maggie Jones	org
	008	Sample Organizational Hierarchy 8	CEO	John Smith	org
	009	Sample Organizational Hierarchy 9	CEO	Sarah Pratt	org

Fig. 27

View Hierarchy - linked items

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View Sample Organizational Hierarchy

Display Options: view active parties only, view hierarchy as people

1602

Michael Bean in Sample Organizational Hierarchy

00004	Michael Bean	COO	01/01/1995 - 01/01/2002

1604

Managers of Michael Bean

ID	Name	Title	Start Date	End Date	Hierarchy
00004	Michael Bean	COO	01/01/1995		Sample Organizational Hierarchy
11234	Jeremy Stalk	CEO	01/01/2001	12/31/2002	Intrepid Insurance

Displaying 1-2 of 2

1604

Managed by Michael Bean in Sample Organizational Hierarchy

ID	Name	Title	Start Date	End Date	Hierarchy
00012	Jane Peas	Manager	01/01/1992		
00013	Jennifer Jane Stalk	Manager	01/01/1993		
00014	June Stalk	Manager	01/01/1994		Entrepide Insurance
00015	Oz Heinz	VP	01/01/1995		
00016	Annette Peas	Manager	01/01/1992		
00017	June Stalk	Manager	01/01/1993		
00018	Sweetree Bean	Regional Manager	01/01/1994		
00019	Garland Heinz	VP	01/01/1995		Whole County Insurance

Displaying 1-25 of 40

1604

1602

1604

1604

1604

1604

Fig. 28

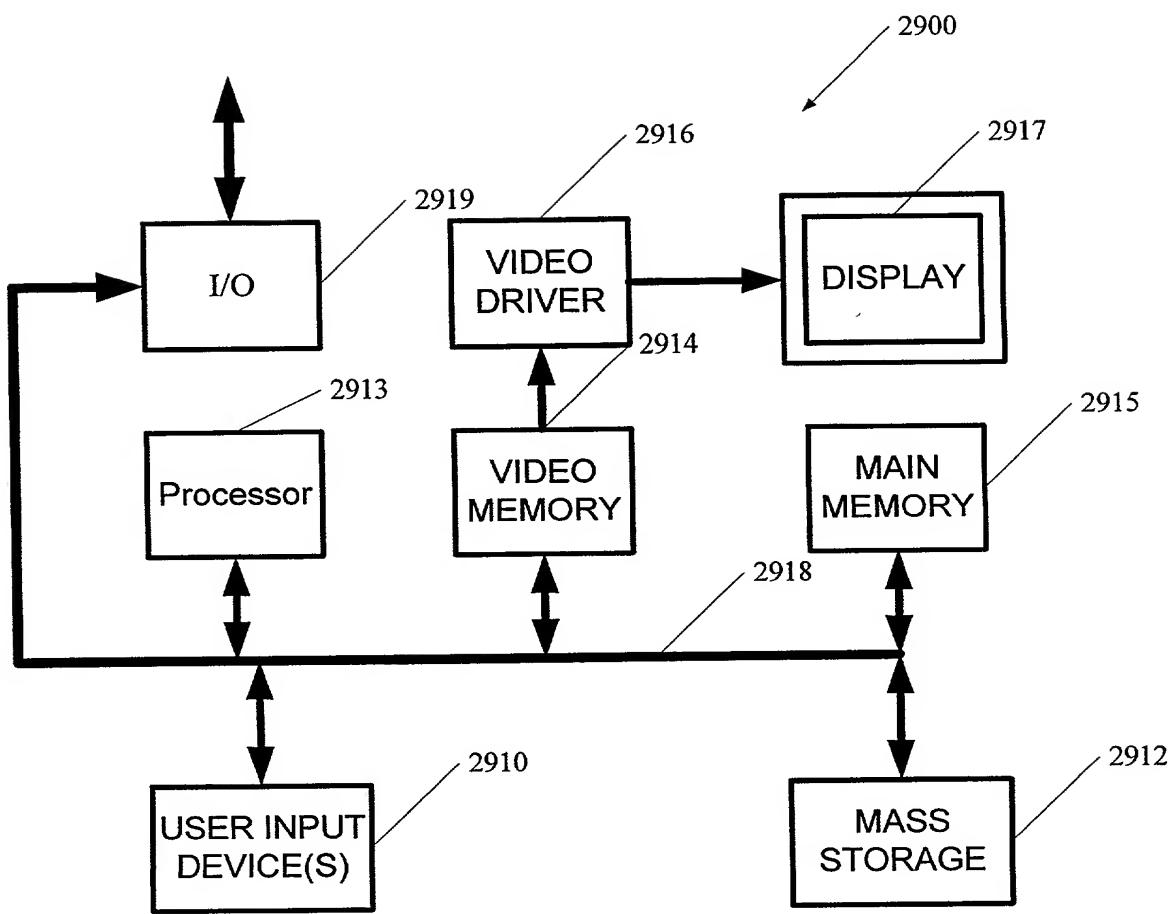
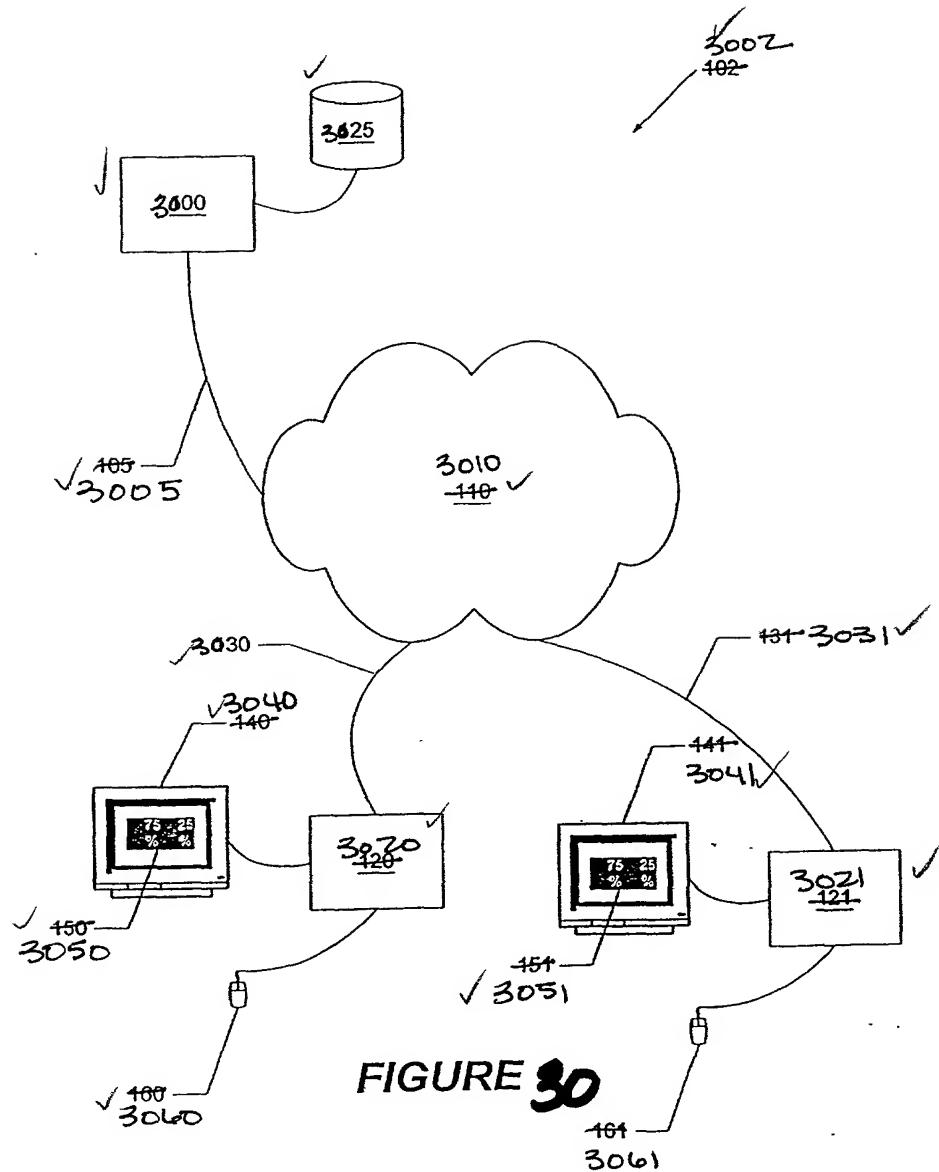


Figure 29

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Attorney Docket No.:
First Inventor:
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TRUDEX CMS		Home	Series	Hierarchies	Contracts	Agreements	Payments	Topics	Frontend																																																																		
Search for Hierarchy >>		Search Results type: organization, name contains: "sample"																																																																									
<input type="checkbox"/> Hierarchy <input type="checkbox"/> Type <input type="checkbox"/> ID <input type="checkbox"/> Name <input type="checkbox"/> Must be agreement hierarchy? <input type="checkbox"/> Contains Positions: <input type="checkbox"/> Position Type <input type="checkbox"/> AgRel ID		<table border="1"> <thead> <tr> <th>ID</th> <th>Name</th> <th>Position</th> <th>Party</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>01</td> <td>Sample Organizational Hierarchy 1</td> <td>VP</td> <td>Jane Michael Bean</td> <td>org</td> <td>Testing testing</td> </tr> <tr> <td>01</td> <td>Sample Organizational Hierarchy 1</td> <td>Regional Manager</td> <td>Marked Bean</td> <td>org</td> <td>102</td> </tr> <tr> <td>01</td> <td>Sample Organizational Hierarchy 1</td> <td>Manager</td> <td>Morris Bean</td> <td>org</td> <td>testing again</td> </tr> <tr> <td>02</td> <td>Intrepid Insurance</td> <td>Clerk</td> <td>Norman Bean</td> <td>org</td> <td></td> </tr> <tr> <td>05</td> <td>Sample Organizational Hierarchy 5</td> <td>Clerk</td> <td>Ople Bean</td> <td>org</td> <td></td> </tr> <tr> <td>05</td> <td>Sample Organizational Hierarchy 5</td> <td>Clerk</td> <td>Paul Bean</td> <td>org</td> <td></td> </tr> <tr> <td>05</td> <td>Sample Organizational Hierarchy 5</td> <td>Clerk</td> <td>Ross Bean</td> <td>org</td> <td></td> </tr> <tr> <td>07</td> <td>Sample Organizational Hierarchy 7</td> <td>Clerk</td> <td>Sarah Bean</td> <td>org</td> <td></td> </tr> <tr> <td>07</td> <td>Sample Organizational Hierarchy 7</td> <td>Clerk</td> <td>Tara Bean</td> <td>org</td> <td></td> </tr> <tr> <td>07</td> <td>Sample Organizational Hierarchy 7</td> <td>Clerk</td> <td>Well Bean</td> <td>org</td> <td></td> </tr> </tbody> </table>								ID	Name	Position	Party	Type	Description	01	Sample Organizational Hierarchy 1	VP	Jane Michael Bean	org	Testing testing	01	Sample Organizational Hierarchy 1	Regional Manager	Marked Bean	org	102	01	Sample Organizational Hierarchy 1	Manager	Morris Bean	org	testing again	02	Intrepid Insurance	Clerk	Norman Bean	org		05	Sample Organizational Hierarchy 5	Clerk	Ople Bean	org		05	Sample Organizational Hierarchy 5	Clerk	Paul Bean	org		05	Sample Organizational Hierarchy 5	Clerk	Ross Bean	org		07	Sample Organizational Hierarchy 7	Clerk	Sarah Bean	org		07	Sample Organizational Hierarchy 7	Clerk	Tara Bean	org		07	Sample Organizational Hierarchy 7	Clerk	Well Bean	org	
ID	Name	Position	Party	Type	Description																																																																						
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01	Sample Organizational Hierarchy 1	Manager	Morris Bean	org	testing again																																																																						
02	Intrepid Insurance	Clerk	Norman Bean	org																																																																							
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07	Sample Organizational Hierarchy 7	Clerk	Tara Bean	org																																																																							
07	Sample Organizational Hierarchy 7	Clerk	Well Bean	org																																																																							
<input type="checkbox"/> Linked positions <input type="checkbox"/> Yes		<p>Displaying results 1-10 of 27 previous 10 next 10 next 20</p>																																																																									
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		<table border="1"> <thead> <tr> <th>Number of parties</th> <th>Contains linked hierarchies</th> <th>Hierarchies linking to this one</th> </tr> </thead> <tbody> <tr> <td>100</td> <td>2</td> <td>3</td> </tr> </tbody> </table>								Number of parties	Contains linked hierarchies	Hierarchies linking to this one	100	2	3																																																												
Number of parties	Contains linked hierarchies	Hierarchies linking to this one																																																																									
100	2	3																																																																									

Fig. 31

View Hierarchy - display options

Attorney Docket No.: M-12213 US
 First Inventor: Sherrill J. Packebush
 Title: System and Method For An Interface To Provide Visualization And Navigation Of A Directed Graph

>> View Sample Organizational Hierarchy

Display Options

View hierarchy as: Titles People

3202a 3202b

Michael Bean in Sample Organizational Hierarchy

ID	Name	Title	Dept	Start Date	End Date	Hierarchy
00004	Michael Bean	COO	00004	01/01/1995	01/01/2002	Sample Organizational Hierarchy
00005	John Stalk	CEO	00005	01/01/1995	01/01/2002	Intrepid Insurance
11234	Jeremy Stalk	CEO	00005	01/01/2001	12/31/2002	Intrepid Insurance

1404

Displaying 1-2 of 2

Managers of Michael Bean

ID	Name	Title	Dept	Start Date	End Date	Hierarchy
00012	Jane Peas	Manager	00004	01/01/1992	01/01/1993	Sample Organizational Hierarchy
00013	Jennifer Jane Stalk	Manager	00005	01/01/1992	01/01/1993	Intrepid Insurance

1404

Managed by Michael Bean in Sample Organizational Hierarchy

ID	Name	Title	Dept	Start Date	End Date	Hierarchy
00015	Oz Heinz	VP	Marketing	01/01/1995	01/01/1995	Sample Organizational Hierarchy
00016	Annette Peas	Manager	R&D	01/01/1992	01/01/1993	Intrepid Insurance
00017	June Stalk	Manager	Benefits	01/01/1993	01/01/2002	Intrepid Insurance
00018	Sweetpea Bean	Regional Manager	Sales	01/01/1994	01/01/2002	Intrepid Insurance
00019	Garland Heinz	VP	Finance	01/01/1995	01/01/1995	Intrepid Insurance

1404

Whole County Insurance

previous 5 | next 5

Fig. 32

View Hierarchy - view by Title

Attorney Docket No.: M-12213 US
 First Inventor: Sherrill J. Packebush
 Title: System and Method For An Interface To Provide Visualization And Navigation Of A Directed Graph

>> View Sample Organizational Hierarchy

Display Options : view active nodes only, view hierarchy as titles

COO position in Sample Organizational Hierarchy

ID	Name	Dept	Start Date	End Date	Hierarchy
000D4	Michael Bean	COO	01/01/1995 - 01/01/2002		
		Intrepid Insurance			

Managers of COO position

Title	Dept	ID	Name	Start Date	End Date	Hierarchy
CEO	Intrepid Insurance	11234	Jeremy Stalk	01/01/1999	01/01/2001	Sample Organizational Hierarchy

Displaying 1-2 of 2

Managed by COO position in Sample Organizational Hierarchy

Title	Dept	ID	Name	Start Date	End Date	Hierarchy
VP Manager	Sales	000112	Jane Peas	01/01/1992	01/01/1993	
Manager	Marketing	000113	Jennifer Jane Stalk	01/01/1993	01/01/2002	
Manager	Marketing	000115	Oz Heinz	01/01/1995		
Manager	R&D	000116	Annette Peas	01/01/1992	01/01/2002	
Manager	Benefits	000117	June Stalk	01/01/1993	01/01/2002	
Regional Manager	Sales	000118	Sweetpea Bean	07/01/1994	01/01/1995	Whole County Insurance
VP	Finance	000119	Garland Heinz	01/01/1995		

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Fig. 33

Add Position/Party - Step 1

Attorney Docket No.: M-12213 US
First Inventor: Sherrill J. Packebush
Title: System and Method For An Interface To Provide Visualization And Navigation Of A Directed Graph

1. Add To
Hierarchy: Sample Organizational Hierarchy
Under: Michael Bean
Start Date: End Date:

2. Position
Position Type: Position Name: Position Description:

3. Person
Use Placeholder: Yes
Party ID: First Name: Daniel
Last Name: Bean

Fig. 34a

Add Position/Party - step 2

Trilbyx DMS Home Profile Hierarchy Contracts Agreements Payments Tools Help

>>

Add Position/Person

1. Add To

Hierarchy
Under
Start Date
End Date

Sample Organizational Hierarchy
Michael Bean

2. Position

Position Type

Position Name
Position Description

3. Person

Use Placeholder Yes
Party ID
First Name
Last Name

Please select the appropriate person from the following:

ID	Last Name	First Name	Organization	City
12314	Bean	Daniel	Trilogy	Austin
43142	Bean	Daniel	TriBos	Boston
00021	Bean	Daniel	TriBen	Denver

Fig. 34b

Attorney Docket No.:
First Inventor:
Title:

M-12213 US
Sherrell J. Packebush
System and Method For An Interface To Provide Visualization And
Navigation Of A Directed Graph

Edit Position/Person	
Hierarchy	Sample Organizational Hierarchy
Under	Michael Bean
Edit effective as of	<input type="text" value="01/16/2001"/> <input type="button" value="..."/>
1. Position	
Type	<input type="text" value="VP"/> <input checked="" type="checkbox"/>
Name	<input type="text" value="Vice President"/>
Department	<input type="text" value="Sales"/>
Description	<input type="text"/>
3. Person	
Use Placeholder	<input type="checkbox"/> Yes <input type="text"/>
Party ID	<input type="text" value="Jane Michael Bean"/>
First Name	<input type="text" value="Jane"/>
Last Name	<input type="text" value="Michael Bean"/>

Fig. 35

Retire Party

Attorney Docket No.: M-12213 US
First Inventor: Sherrill J. Packebush
Title: System and Method For An Interface To Provide Visualization And Navigation Of A Directed Graph

Retire Position

Hierarchy Under	Sample Organizational Hierarchy
Retire as of	Jack Sprat 01/16/2001

1. Retire Person and Position

Name	Michael Bean
Position	VP, Sales
Description	

2. Subordinates affected (one level down only)

ID	Name	Title	Dept
00012	Jane Peas	Manager	Sales
00013	Jennifer Jane Stalk	Manager	Marketing
00015	Oz Heinz	VP	Marketing
00016	Annette Peas	Manager	R&D
00017	June Stalk	Manager	Benefits
00019	Garland Heinz	VP	Finance

Fig. 36

Move Subtree

Attorney Docket No.: M-12213 US
 First Inventor: Sherrill J. Packebush
 Title: System and Method For An Interface To Provide Visualization And Navigation Of A Directed Graph

Move Hierarchy

Filter: Party Status is Active Advanced

View hierarchies as: Titles People

Move Subtree

Subordinates included in move		Move Subtree	
ID	Name	ID	Type of Move
00004	Michael Bean	00004	<input type="radio"/> Move <input type="radio"/> Copy <input checked="" type="radio"/> Insert as link
00012	Jane Peas	Dept	Start Date
00013	Shak	Sales	01/16/2001
00014	Jane Michael Bean	Marketing	End Date
00015	Oz Heinz	Sales	
00016	Annette Peas	Marketing	
00017	June Stalk	R&D	
00018	Sweetpea Bean	Benefits	
00019	Garland Heinz	Sales	
		Whole County Insurance	
		Finance	

(Move includes subordinates of subordinates.)

▼ 1. Target Hierarchy

Type	Name
org	
Vice President	
Sales	
Marketing	
R&D	
Benefits	
Sales	

▼ 2. Target Location

Position	< select one >
Party ID	
First Name	Jane Michael
Last Name	Bean

▼ 3. Target Position

Position
Party ID
First Name
Last Name

Fig. 37